

METHOD AND APPARATUS FOR QUANTIFYING THE NUMBER OF IDENTICAL CONSECUTIVE DIGITS WITHIN A STRING

ABSTRACT

One embodiment of the present invention provides a system for quantifying a number of identical consecutive digits starting from a fixed position within a string of n digits. The system operates by converting the string of n digits into a thermometer code, wherein the thermometer code uses m bits to represent a string of m identical consecutive digits within the string of n digits. Next, the system converts the thermometer code into a one-hot code in which only one bit has a logical one value. Finally, the system converts the one-hot code into a logarithmic code representing the number of identical consecutive digits.